EXHIBIT J

	Page 1			
1	IN THE UNITED STATES DISTRICT COURT			
2	FOR THE EASTERN DISTRICT OF TEXAS			
3	MARSHALL DIVISION			
4	ENTROPIC COMMUNICATIONS,			
5	LLC,			
6	Plaintiff, Case No.			
7	vs. 2:22-cv-00125-JRG			
8	CHARTER COMMUNICATIONS,			
9	INC.,			
10	Defendant.			
11	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
12				
13				
14	REMOTE VIDEO DEPOSITION OF			
15	RICHARD A. KRAMER			
16				
17				
18	August 24, 2023			
19	10:08 a.m. Central			
20				
21				
22				
23	Stenographically Reported By:			
24	Deanna Amore - CRR, RPR, CSR - 084-003999			
25				

On Behalf of the Plaintiff, ENTROPIC COMMUNICATIONS, LLC: K&L GATES LLP CONNOR MEGGS To West Madison Street Suite 3300 Chicago, Illinois 60602 connor.meggs@klgates.com On Behalf of the Defendant, CHARTER COMMUNICATIONS, INC.: ARROLD & PORTER MARC COHN Of Ol Massachusetts Avenue NW Washington, D.C. 20001 Marc.cohn@arnoldporter.com ALSO PRESENT: ALSO PRESENT: Tim Tupiak, Legal Videographer Matthew Laurence, Concierge-Technician ALSO PRESENT: Matthew Laurence, Concierge-Technician Sexhibit 9 Li - U.S. Patent 9 Application 2007/0098089; CHARTER_ENTROPIC000359 Exhibit 10 Dauphinee U.S. Patent 9 CHARTER_ENTROPIC003806 Report of Richard A. Kramer Language Exhibit 11 8.11.2023 Expert Rebuttal Exhibit 12 Errata to Expert Report 10 Exhibit 13 Asserted Patents Claim 1 Language Exhibit 14 7.12.2023 Deposition 83 Transcript of Curtis Ling, Ph.D.	76- 9
(All Participants Appeared Remotely.) On Behalf of the Plaintiff, ENTROPIC On Behalf of the Plaintiff, ENTROPIC Separate COMMUNICATIONS, LLC: K&L GATES LLP CONNOR MEGGS To West Madison Street Suite 3300 Chicago, Illinois 60602 connor.meggs@klgates.com On Behalf of the Defendant, CHARTER COMMUNICATIONS, INC.: ARNOLD & PORTER MARC COHN MARC COHN ALSO PRESENT: Tim Tupiak, Legal Videographer Matthew Laurence, Concierge-Technician ALSO PRESENT: Tim Tupiak, Legal Videographer Matthew Laurence, Concierge-Technician ALSO PRESENT: Tim Tupiak, Legal Videographer Matthew Laurence, Concierge-Technician ALSO PRESENT: Tim Tupiak, Legal Videographer Matthew Laurence, Concierge-Technician ALSO PRESENT: Tim Tupiak, Legal Videographer Matthew Laurence, Concierge-Technician ALSO PRESENT: Tim Tupiak, Legal Videographer Matthew Laurence, Concierge-Technician ALSO PRESENT: Tim Tupiak, Legal Videographer Matthew Laurence, Concierge-Technician ALSO PRESENT: Tim Tupiak, Legal Videographer Matthew Laurence, Concierge-Technician ALSO PRESENT: Tim Tupiak, Legal Videographer Matthew Laurence, Concierge-Technician ALSO PRESENT: Tim Tupiak, Legal Videographer Matthew Laurence, Concierge-Technician ALSO PRESENT: Tim Tupiak, Legal Videographer Matthew Laurence, Concierge-Technician ALSO PRESENT: Tim Tupiak, Legal Videographer Matthew Laurence, Concierge-Technician ALSO PRESENT: Tim Tupiak, Legal Videographer Matthew Laurence, Concierge-Technician ALSO PRESENT: Tim Tupiak, Legal Videographer Matthew Laurence, Concierge-Technician ALSO PRESENT: Tim Tupiak, Legal Videographer Matthew Laurence, Concierge-Technician ALSO PRESENT: Tim Tupiak, Legal Videographer Matthew Laurence, Concierge-Technician ALSO PRESENT: Tim Tupiak, Legal Videographer Matthew Laurence, Concierge-Technician ALSO PRESENT: Tim Tupiak, Legal Videographer Matthew Laurence, Concierge-Technician ALSO PRESENT: Tim Tupiak, Legal Videographer Matthew Laurence, Concierge-Technician ALSO PRESENT: Tim Tupiak, Legal Videographer Matthew La	23- 76- 9
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2 WITNESS EXAMINATION 2 on the record. The time is 10:08 a.m. Central Time	_
3 RICHARD A. KRAMER 3 on August 24, 2023.	Ü
4 EXAMINATION BY MR. COHN 6 4 Quality of recording depends on quality of	
5 EXAMINATION BY MR. MEGGS 133 5 camera and Internet connection of participants.	
6 EXHIBITS 6 What is heard from the witness and seen on the	
7 Exhibit 1 U.S. Patent 8,223,775 8 7 screen is what will be recorded.	
8 Exhibit 2 U.S. Patent 9,210,362 8 Audio and video recording will continue to	
9 Exhibit 3 Richard Kramer Curriculum 8 9 take place unless both parties agree to go off the	
10 Vitae 10 record. 10:08:18	
11 Exhibit 4 Materials Considered to 8 11 This is Media Unit No. 1 in the	
12 Expert Report of Dr. 12 video-recorded deposition of Dr. Richard Kramer,	
13 Richard Kramer 13 taken in the matter of Entropic Communications, LLC	
17 1607 17 Case No. 2:22-cv-00125-JRG.	
18 Exhibit 6 Brooks - U.S. Patent 9 18 My name is Tim Tupiak. I'm the	
Application 2001/0039600; 19 videographer. The court reporter is Deanna Amore.	
20 CHARTER_ENTROPIC00217633- 20 We are both with the firm Veritext Legal Solutions. 10	
21 -646 21 I am not related to any party in this	08:53
22 Exhibit 7 Zhang - U.S. Patent 9 22 action, nor am I financially interested in the	08:53
	08:53
23 6,704,372 23 outcome.	08:53
	08:53

	Page 14		Page 16
1	approximately 10. There's also been for	1	these things.
2	validity, I worked with the patent owners. Some of	2	The term "wideband" in the '362 patent is
3	those have been I have helped address just	3	not given a special definition in that patent; is
4	giving my technical opinions during, like, the	4	that correct?
5	patent owner response, and so some of those were	5	A. What do you mean by "special definition"?
6	dealt with at that level, and then or I've	6	Q. Is there a passage of the '362 patent that
7	written testimony on behalf of the patent holder.	7	provides a definition of wideband?
8	Q. In terms of your involvement in IPRs	8	A. As one skilled in the art in reading
9	before the patent office, how many times have you	9	wideband, there is the discussion about the fact
10	rendered an opinion that patent claims were 10:20:02	10	that, for example, in column 4, that the frequency 10:23:14
11	unpatentable as opposed to patentable?	11	bandwidth spectrum could be any any portion.
12	A. As far as the numbers of matters I worked	12	In column 5, there's a discussion, for
13	on, it's about 50/50 split. Again, some of this	13	example, with respect to bandwidth, UBW1, for
14	stuff didn't see the light of day because but	14	instance, the frequency spectrum, that it would be
15	the as far as the number of IPRs I've done, it	15	understood that it could comprise all available
16	would probably be around maybe ten.	16	channels that exist in a license frequency spectrum
17	Q. Have you testified in front of a jury	17	to provide system flexibility, and it can also be
18	before in a patent case?	18	all receivable channels within a geographical area.
19	A. No, sir, never.	19	So as one skilled in the art, one would
20	(Stenographer clarification.) 10:20:45	20	appreciate that wideband would include at least it 10:24:09
21	THE WITNESS: I believe I said ten.	21	is a broader term than full band and would include
22	And that ten doesn't represent some things	22	full.
23	that where there was never a declaration ever	23	Q. Wideband is not limited to full band.
24	issued. The ten there's a broader number than	24	That's correct; right?
25	ten where both for the patent owner and for the	25	A. Wideband is a broader term. It would
	Page 15		Page 17
1	defendants where I've worked on other matters,	1	include full.
2	that's a broader number than ten. I don't know	2	Q. And wideband would include bandwidth less
3	what it is, but it's probably 50. I could be	3	than full band; correct?
4	wrong.	4	A. Under the umbrella it could include full
5	BY MR. COHN:	5	band. It could include something less than full
6	Q. All right. Let's look at the '362 patent,	6	band.
7	No. 2.	7	Q. One of the examples given of widebands
8	A. Okay.	8	within the '362 patent is 80 megahertz bandwidth;
9	Q. This patent is titled "Wideband Tuner	9	is that correct?
10	Architecture." 10:21:55	10	A. Can you show me where?
11	Do you see that?	11	Q. My browser just burped.
12	A. Yes, sir.	12	I believe it's column 2. I'm sorry. It's
13	Q. And the term "wideband" is used in both	13	column 4, approximately line 22. It says "In this
14	the specification and in the claims of this patent;	14	example, a number of available channels in BW1 is
15	right?	15	assumed to be 10 with each channel occupies an
16	A. For instance, it's in the title, and it's	16	8 megahertz bandwidth for a total of 80 megahertz."
17	in the claims, a wideband receiver system, and	17	Do you see that?
18	it's, for instance, in the abstract.	18	A. I do see that.
19	Q. And when you say "in the abstract," you	19	Q. And the total of 80 megahertz is an
20	don't mean conceptually, you mean in reality, it's 10:22:19	20	example of a wideband; is that right? 10:26:03
21	in a portion of the patent called the abstract; is	21	A. I think that's a good way of putting it.
22	that correct?	22	It's an example.
23	A. On the front page of the patent, thank	23	Q. Would a bandwidth incoming to the system
24	you, Item No. 57.	24	described in the '362 patent of only 8 megahertz be
25	 Q. Aren't always as familiar as we are with 	25	considered a wideband?

1 subscriber would be again the same. So there 2 wouldn't be any undesired channels, and it's being 3 selected from undesired. 4 BY WR. MIGGS: 5 Q. And then what happens when n is greater 6 than m? 7 MR. COHN: Same objections. 8 THE WITNIESS: So need be any number, and so 9 then it would be some sort of a selection of n is 9 greater than m. 16-42-26 11 MR. MEGGS: No further questions. 12 MR. COHN: Okay, 1 don't have any questions. 13 lobject to the entire redirect as outside of 14 scope of his report and outside of scope of my 15 questioning, but I don't have any questions. 16 MR. MEGGS: Your objection is noted, sir, but 17 lobviously disagree. 18 THE VIDEOGRAPHER: Are we ready to go off the 19 record? 20 MR. COHN: We sure are. 16-42-250 21 THE VIDEOGRAPHER: We are going off the record. 21 The time is 4-42 p.m. This concludes today's 22 testimony by Rich Kramer. The total number of 23 testimony by Rich Kramer. The total number of 24 media unit used was six and will be retrained by 25 Veritext Legal Solutions. Thank you. Page 143 1 CERTIFICATE 2 In DEANNA AMORE, a Shorthand Reporter and 4 notary public, within and for the State of 11 Illinois, County of DuPage, 6 hereby certify: 4 media unit used was six and will be retrained by 5 veritext Legal Solutions. Thank you. Page 143 1 CIRTIFICATE 4 PAGE LINE CHANGE 5 Illinois, County of DuPage, 6 hereby certify: 5 That RICHARD A, KRAMER, the witness whose 6 the analysis of the section by blood or 13 marriage, and that I am in no way interested in the 14 outcome of this matter. 15 In WITNESS WHEREOF, I have hereunto set my 15 harmariage, and that I am in no way interested in the 16 In WITNESS WHEREOF, I have hereunto set my 17 hand his 28th day of August 2023. 18 JULIAN AMORE, a Reason Section of the section by Blood or 18 marriage, and that I am in no way interested in the 19 page 145 outcome of this matter. 19 PAGE LINE CHANGE 10 PAGE LINE CHANGE 11 REASON SEASON SEASO		Page 142		Page 144
A guest 28, 2023 A Pagest 28, 2023 A Entropic Communications v Charter Communications, Inc., Et Al 5, 824/2023, Rehand Kramer (#6/607726) The MR. COHN: Same objections. THE WITNESS: So n could be any number, and so 6 mit would be some sort of a selection of n is 9 read the testimony to verify its accuracy. If there are 1 and with the physical set is the state of 1 september 1 and outside of scope of my 1 don't have any questions. MR. MEGGS: No further questions. MR. MEGGS: Your objection is noted, sir, but 1 obviously disagree. THE WITDEOGRAPHER: Are we ready to go off the 1 record? THE WIDEOGRAPHER: We are going off the record. THE WIDE	1		1	-
4 BY MR. MEGGS: 5 Q. And then what happens when n is greater 6 than m? 7 MR. COHN: Same objections. 8 THE WITNESS: So n could be any number, and so 9 then it would be some sort of a selection of n is 10 greater than m. 16.42.26 11 MR. MEGGS: No further questions. 12 MR. COHN: Okay. I don't have any questions. 13 Jobject to that entire redirect as outside of 14 scope of his report and outside of scope of my 15 questioning, but I don't have any questions. 16 MR. MEGGS: Your objection is noted, sir, but 17 Joh∀iously disagree. 18 THE VIDEOGRAPHER: Are we ready to go off the 18 receipt of testimony. 19 MR. COHN: We sure are. 16 42.50 21 THE VIDEOGRAPHER: We are going off the record. 21 The twine shade six and will be retained by 22 testimony by Rich Kramer. The total number of media unit used was six and will be retained by 24 veritext Legal Solutions. Thank you. 25 Page 143 26 CERTIFICATE 27 That KICHARD A. KRAMER, the witness whose examination is hereitsbefore set forth, was first and notary public, within and for the Stute of testimony is a true record of the testimony given by said witness. 11 I arrher certify that I am not related to any of the parties to this action by blood or marriage, and that I am not related to any of the parties to this action by blood or marriage, and that I am not related to any of the parties to this action by blood or marriage, and that I am not related to any of the parties to this action by blood or marriage, and that I am not related to any of the parties to this action by blood or marriage, and that I am not related to any of the parties to this action by blood or marriage, and that I am not related to any of the parties to this action by blood or marriage, and that I am not related to any of the parties to this action by blood or marriage, and that I am not related to any of the parties to this action by blood or marriage, and that I am not related to any of the parties to this action by blood or marriage, and that I am not related to any of the parties to this action by blood	2	wouldn't be any undesired channels, and it's being	2	connor.meggs@klgates.com
5 Q. And then what happens when n is greater 6 that m n? 7 MR. COHN: Same objections. 8 THE WITNESS: So n could be any number, and so 9 then it would be some sort of a selection of n is 9 greater than m. [642:26] 11 MR. MEGGS: No further questions. 12 MR. COHN: Okay. I don't have any questions. 13 I object to that entire redirect as outside of 10 object to that entire redirect as outside of 12 object to that entire redirect as outside of 13 object to that entire redirect as outside of 14 copes of his report and outside of scope of my 15 questioning, but I don't have any questions. 16 MR. MEGGS: Your objection is noted, sir, but 17 I obviously disagree. 17 HE WITNESGRAPHER: Are we ready to go off the record. 28 THE WIDEOGRAPHER: Are we ready to go off the record. 29 MR. COHN: We sure are. 16:42:50 20 MR. COHN: We sure are. 16:42:50 21 THE WIDEOGRAPHER: We are going off the record. 24 testimony by Rich Kramer. The total number of 25 testimony by Rich Kramer. The total number of 26 media unit used was six and will be retained by 26 Veritext Legal Solutions. Thank you. Page 143 C E R T I F I C A T E 2	3	selected from undesired.	3	August 28, 2023
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